

1741

Attorney's Docket No. 30208.240386

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Gao et al. Confirmation No.: 1829
Appl. No.: 10/040,047 Group Art Unit: 1741
Filed: October 29, 2001
For: POSITIVE ELECTRODE ACTIVE MATERIALS FOR SECONDARY
BATTERIES AND METHODS OF PREPARING SAME

March 1, 2002

Commissioner for Patents
Washington, DC 20231

PRELIMINARY AMENDMENT

Sir:

Please amend the above-identified application as follows:

In the Claims:

Please cancel Claim 1, without prejudice.

2. (Rewritten) A positive electrode active material for secondary lithium and lithium-ion batteries comprising:

at least one electron conducting compound having the formula $\text{LiM}^1_{x-y}\{\text{A}\}_y\text{O}_z$ wherein M^1 is a transition metal; $\{\text{A}\}$ is represented by the formula $\sum w_i \text{B}_i$ wherein B_i is an element other than M^1 used to replace the transition metal M^1 and w_i is the fractional amount of element B_i in the total dopant combination such that $\sum w_i = 1$; B_i is a cation in $\text{LiM}^1_{x-y}\{\text{A}\}_y\text{O}_z$; $0.95 \leq x \leq 1.05$; $0 \leq y \leq x/2$; and $1.90 \leq z \leq 2.10$; and

at least one electron insulating and lithium ion conducting lithium metal oxide selected from the group consisting of LiAlO_2 and $\text{Li}_2\text{M}^2\text{O}_3$, wherein M^2 is at least one tetravalent metal selected from the group consisting of Ti, Zr, Mn, Mo, Si, Ge, Hf, Ru and Te.

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